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IN THE CLAIMS:

Please amend the claims as indicated below.

1. (Currently Amended) A method for distributing a clock signal generated by a  
5 clock generator to a plurality of nodes on an integrated circuit, said method comprising the steps  
of:

estimating the a clock delay for each of said nodes, wherein said clock delay  
includes clock generator output delays and resistive-capacitive (RC) delays; and

adjusting said clock signal for each node based on said estimated clock delay such  
10 that said clock signal arrives at each of said nodes with an aligned phase.

2. (Original) The method of claim 1, wherein said estimating step further comprises  
the step of estimating a round trip delay time for said clock signals.

3. (Original) The method of claim 2, wherein said round trip delay time is obtained  
using a primary clock path and a return clock path.

15 4. (Currently Amended) The method of claim 1, wherein said integrated circuit is a  
system-on-chip (SoC).

5. (Currently Amended) The method of claim 1, wherein said integrated circuit is a  
printed circuit board (PCB).

20 6. (Currently Amended) A method for distributing a clock signal generated by a  
clock generator to a plurality of nodes on an integrated circuit, said method comprising the steps  
of:

providing a feedback clock path for each of said nodes, each of said feedback  
25 clock paths having an associated primary clock path that distributes said clock to each node;

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determining a round trip travel time of said clock signal on each of said primary clock paths and associated feedback clock path;

estimating ~~the~~ a clock delay for each of said nodes using said round trip travel time; and

5 adjusting said clock signal for each node based on said estimated clock delay such that said clock signal arrives at each of said nodes with an aligned phase.

7. (Currently Amended) The method of claim 6, wherein said clock delay includes a clock generator output delay and a resistive-capacitive (~~RC~~) delay.

8. (Cancelled)

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9. (Currently Amended) The method of claim 8, wherein said round trip delay time is obtained using a the primary clock path and a return clock path.

10. (Currently Amended) The method of claim 6, wherein said integrated circuit is a system-on-chip (~~SoC~~).

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11. (Currently Amended) The method of claim 6, wherein said integrated circuit is a printed circuit board (~~PCB~~).

12. (Original) A network for distributing a clock signal generated by a clock generator to a plurality of nodes on an integrated circuit, said network comprising:

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a primary clock path that distributes said clock to each node;

a feedback clock path associated with each of said primary clock paths;

a phase comparator for determining a round trip travel time of said clock signal on each of said primary clock paths and associated feedback clock path; and

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a delay driver for adjusting said clock signal for each of said nodes based on an estimated clock delay for each of said nodes based on said round trip travel time, such that said clock signal arrives at each of said nodes with an aligned phase.

13. (Currently Amended) The network of claim 12, wherein said clock delay includes  
5 a clock generator output delay and a resistive-capacitive (~~RC~~) delay.

14. (Cancelled)

15. (Currently Amended) The network of claim 14, wherein said round trip delay time is obtained using a the primary clock path and a return clock path.

10 16. (Currently Amended) The network of claim 12, wherein said integrated circuit is a system-on-chip (~~SoC~~).

17. (Currently Amended) The network of claim 12, wherein said integrated circuit is a printed circuit board (~~PCB~~).